ROBO Cylinder Mini Rod Type Short-Length Mounting Type with Double Guide RCA2-GD3N 28mm Width 24V Servo Motor Lead Screw lacktriangle Configuration: RCA2 - GD3N 30 10 Encoder Motor Lead Stroke 10 : 10W Servo 4S: 4mm lead screw
Motor 2S: 2mm lead screw
1S: 1mm lead screw I: Incremental \* The Simple 30 :30mm absolute encoder is also considered \* See page Pre-35 for an explanation of the naming convention.

Cable Length Compatible Controlle Option K2 : Connector Cable exit direction LA : Power-saving N: None A1: ACON P:1m S:3m M:5m RACON ASEL A3 : AMEC X 🗆 🗆 : Custom ASEP

Power-saving Technical **曾P. A-5** References

(1) The horizontal load capacity is based on the use of a guide to prevent any radial and/or moment load on the rod.

If no guide will be installed, see the Tip Load vs. Service Life graph (  $\rightarrow$  page A-82).

The load capacity is based on operation at an acceleration of 0.2G. This is the upper limit of the acceleration.

This model uses a lead screw. Please ensure that your usage is appropriate for its characteristics. (See page Pre-42 for more information.)

## Actuator Specifications ■ Lead and Load Capacity ■ Stroke and Maximum Speed Max. Load Capacity Rated Feed Stroke 30 Model Lead Output (W Screw RCA2-GD3N-I-10-4S-30-1 - 2 - 3 4 0.25 0.125 25.1 4 200 Lead Screw Lead RCA2-GD3N-I-10-2S-30-10-20-3 10 2 0.5 0.25 50.3 +0.05 30 2 100 Screw RCA2-GD3N-I-10-1S-30-1-2-3 1 1 0.5 100.5 1 50 Legend ① Compatible controller ② Cable length ③ Options

Stroke List	
Stroke (mm)	Standard Price
	Feed Screw
	Lead Screw
30	-

② Cable List				
Туре	Cable Symbol	Standard Price		
Standard (Robot Cables)	P (1m)	_		
	<b>S</b> (3m)	-		
	<b>M</b> (5m)	-		
Special Lengths	X06 (6m) ~ X10 (10m)	-		
	X11 (11m) ~ X15 (15m)	-		
	X16 (16m) ~ X20 (20m)	-		
* The DOAO common standard with a make to achie				

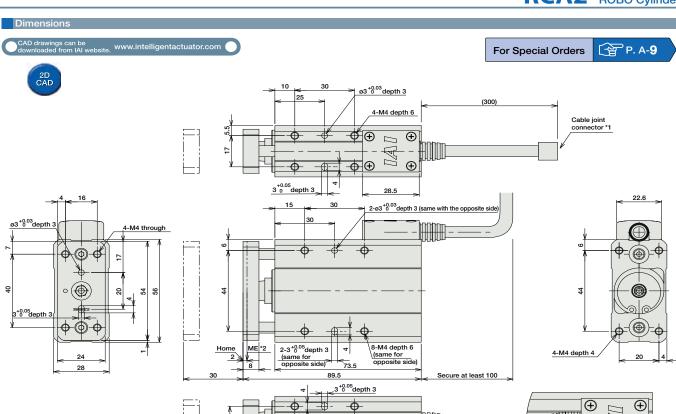
(Unit: mm/s)

- \* The RCA2 comes standard with a robot cable.
- \* See page A-39 for cables for maintenance.

③ Option List			
Name	Option Code	See Page	Standard Price
Connector cable exit direction	K2	→ A-32	-
Power-saving	LA	→ A-32	-

Actuator Specifications					
Item	Description				
Drive System	Lead screw ø4mm C10 grade				
Lost Motion	0.3mm or less (initial value)				
Frame	Material: Aluminum (white alumite treated)				
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)				
Service Life	Horizontal: 10 million cycles Vertical: 5 million cycles				

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4-M4 depth 6

⊨ ÿ3 <sup>+0.03</sup>depth 3

\*1 A motor-encoder cable is connected here. See page A-39 for details on cables.

\*2 When homing, the rod moves to the mechanical end; therefore, please watch for any interference with the surrounding objects.

ME: Mechanical end SE: Stroke end

## ■ Dimensions/Weight by Stroke

**(** 

Connector cable exit direction

(Model: K2)

\* Rotates 180 degrees with respect to the standard model.

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Stroke	30			
Weight (kg)	0.41			

## ① Compatible Controllers

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	The HCA2 series actuators can operate with the controllers below. Select the controller according to your usage.							
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Solenoid Valve Type		AMEC-C-10I①-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P477
Solellold valve Type		ASEP-C-10I①-NP-2-0	Operable with same signal as solenoid valve.	3 points			-	- → P487
Splash-Proof Solenoid Valve Type	3	ASEP-CW-10I①-NP-2-0	Supports both single and double solenoid types. No homing necessary with simple absolute type.				-	
Positioner Type		ACON-C-10I①-NP-2-0	- Positioning is possible for up to 512 points	512 points			-	
Safety-Compliant Positioner Type		ACON-CG-10I①-NP-2-0		312 points		(Standard) 1.3A rated	-	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-10I①-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V	4.4A max. (Power-saving)	-	→ P535
Pulse Train Input Type (Open Collector)		ACON-PO-10I①-NP-2-0	Pulse train input type with open collector support	(-)		1.3A rated 2.5A max.	-	
Serial Communication Type		ACON-SE-10I①-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RACON-10①	Dedicated to field network	768 points			-	→ P503
Program Control Type		ASEL-C-1-10I①-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P567

PMEC (AMEC)
PSEP (ASEP)
ROBO NET
ERC2
PCON
ACON
SCON
PSEL
ASEL
XSEL

Servo Motor (24V)

<sup>\*</sup> This is for the single-axis ASEL.
\* ① is a placeholder for the code "LA" if the power-saving option is specified.